

supplementary and complementary angles worksheet

Supplementary and Complementary Angles Worksheet

Understanding angles is a fundamental aspect of geometry that forms the basis for more complex mathematical concepts. Among the various types of angles, supplementary and complementary angles are crucial for students to grasp as they lay the groundwork for future learning in mathematics. This article aims to provide a comprehensive guide to supplementary and complementary angles, including definitions, properties, examples, and a worksheet to practice these concepts effectively.

Definitions of Supplementary and Complementary Angles

Complementary Angles

Complementary angles are two angles whose measures add up to 90 degrees. In other words, if angle A and angle B are complementary, then:

$$\angle A + \angle B = 90^\circ$$

For example, if one angle measures 30 degrees, the complementary angle would measure 60 degrees since:

$$30^\circ + 60^\circ = 90^\circ$$

Supplementary Angles

Supplementary angles, on the other hand, are two angles whose measures add up to 180 degrees. This means that if angle C and angle D are supplementary, then:

$$\angle C + \angle D = 180^\circ$$

For instance, if one angle measures 110 degrees, the supplementary angle would measure 70 degrees because:

$$110^\circ + 70^\circ = 180^\circ$$

Properties of Supplementary and Complementary

Angles

Understanding the properties of these angles is essential for solving problems and performing calculations accurately. Here are some key properties:

Properties of Complementary Angles

1. Unique Measurement: If one angle is known, the complementary angle can be easily calculated.
2. Right Angles: The sum of two complementary angles is always a right angle.
3. Acute Angles: Both angles are always acute (less than 90 degrees) unless one of them is a right angle (90 degrees).

Properties of Supplementary Angles

1. Unique Measurement: Similar to complementary angles, knowing one angle allows for easy calculation of the supplementary angle.
2. Straight Angle: The sum of two supplementary angles forms a straight angle.
3. Acute and Obtuse Angles: One angle can be acute (less than 90 degrees) while the other can be obtuse (greater than 90 degrees).

Real-life Applications

Both supplementary and complementary angles have practical applications in various fields, including:

1. Architecture: Understanding angles is crucial in designing structures and ensuring stability.
2. Engineering: Engineers rely on angle measurements for constructing machines and other technologies.
3. Art: Artists use angles to create perspective and depth in their work.
4. Sports: Angles play a significant role in games such as pool, where players must calculate shots.

Examples of Complementary and Supplementary Angles

To solidify the understanding of these concepts, let's look at some examples:

Complementary Angles

1. Angle A = 45 degrees
- Angle B = $90 - 45 = 45$ degrees (B is also 45 degrees, making them equal).
2. Angle C = 20 degrees
- Angle D = $90 - 20 = 70$ degrees.

Supplementary Angles

1. Angle E = 60 degrees
- Angle F = $180 - 60 = 120$ degrees.
2. Angle G = 30 degrees
- Angle H = $180 - 30 = 150$ degrees.

Worksheet for Practice

To help students practice and reinforce their understanding of supplementary and complementary angles, here is a sample worksheet:

Worksheet: Supplementary and Complementary Angles

Instructions: Solve the following problems. Show your work for each problem.

1. If angle A measures 65 degrees, what is the measure of its complementary angle?
2. Angle B is 35 degrees. Find the measure of its supplementary angle.
3. Two angles are complementary. If one angle measures 25 degrees, what is the other angle?
4. Angle C and angle D are supplementary. If angle C measures 90 degrees, what does angle D measure?
5. Calculate the measures of two angles that are complementary if one angle is $(5x)$ degrees and the other is $(3x)$ degrees.
6. Find the measures of two supplementary angles where one angle is twice as large as the other.
7. If angle E measures 80 degrees, what is the measure of the complementary angle?
8. Angle F measures $(3y + 15)$ degrees. If angle F and angle G are supplementary, and angle G measures $(2y + 45)$ degrees, find the values of y and angle G.

Answer Key

1. 25 degrees
2. 145 degrees
3. 65 degrees
4. 90 degrees
5. $(5x + 3x = 90 \Rightarrow 8x = 90 \Rightarrow x = 11.25)$, so angles are (56.25) and (33.75) degrees.
6. Let one angle be x . Then the other is $(180 - x)$. Thus, $(x + 2x = 180 \Rightarrow 3x = 180 \Rightarrow x = 60)$, and the angles are 60 and 120 degrees.
7. 10 degrees
8. Setting the equation from the supplementary angles:
- $(3y + 15) + (2y + 45) = 180$
- $(5y + 60 = 180)$

- $(5y = 120 \Rightarrow y = 24)$
- Angle G = $(2y + 45 = 48 + 45 = 93)$ degrees.

Conclusion

Supplementary and complementary angles are essential concepts in geometry that extend beyond the classroom. By understanding these angles, students can apply their knowledge to various real-world situations, making them valuable skills for academic and professional growth. Practicing with worksheets, like the one provided, can help reinforce these concepts and enhance problem-solving skills, ensuring a solid foundation in mathematics for future learning.

Frequently Asked Questions

What are supplementary angles?

Supplementary angles are two angles whose measures add up to 180 degrees.

What are complementary angles?

Complementary angles are two angles whose measures add up to 90 degrees.

How can I identify supplementary and complementary angles in a worksheet?

You can identify them by looking for pairs of angles and checking if their sum equals 180 degrees for supplementary angles or 90 degrees for complementary angles.

What types of problems can I find in a supplementary and complementary angles worksheet?

You can find problems that require you to calculate missing angles, determine whether given angles are supplementary or complementary, and word problems involving angles in real-life contexts.

Are there any specific formulas used in solving supplementary and complementary angles?

Yes, for supplementary angles, the formula is $A + B = 180$ degrees, and for complementary angles, the formula is $A + B = 90$ degrees, where A and B are the measures of the angles.

Where can I find supplementary and complementary angles worksheets?

You can find worksheets on educational websites, math resource platforms, or by searching for

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